

Signify Classified - Internal
Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P1049506

Luminaire Tested: **GALN-SA3B-722-U-LBC**

Issue Date: 07/10/2025

Test Information

Test Method: LM-79-08
Report Number: P1049506
Test Lab: INNOVATION CENTER(G3)
Issue Date: 07/10/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-722-U-LBC
Description: GALLEON II AREA AND ROADWAY LUMINAIRE 800mA 3xLight Square PACKAGE
70CRI 2200K FIXTURE w/ LEFT CORNER BACKLIGHT CONTROL
Light Source: (42) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9381.1 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G2

Input Watts (W): 106.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: 0.97
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

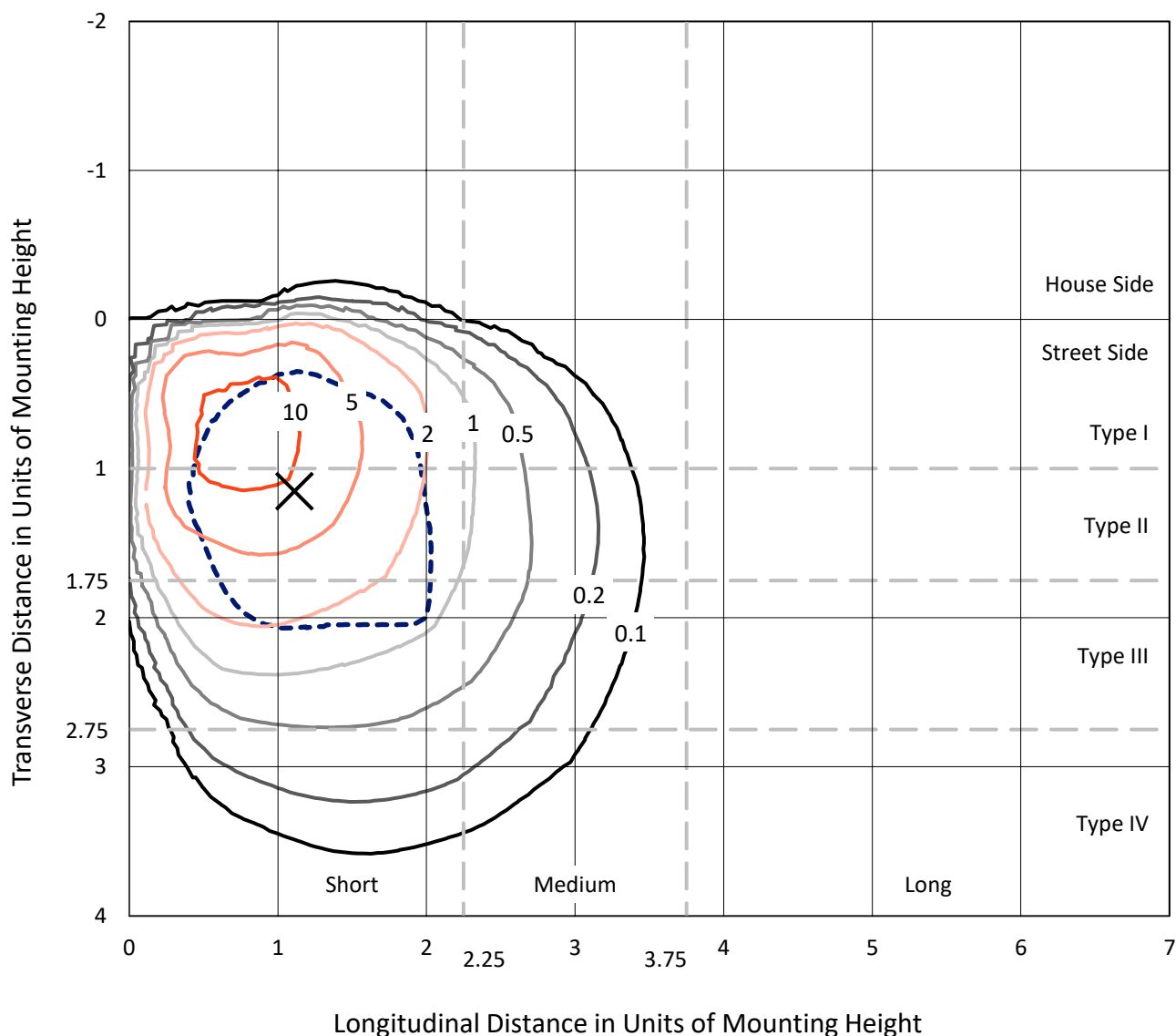
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

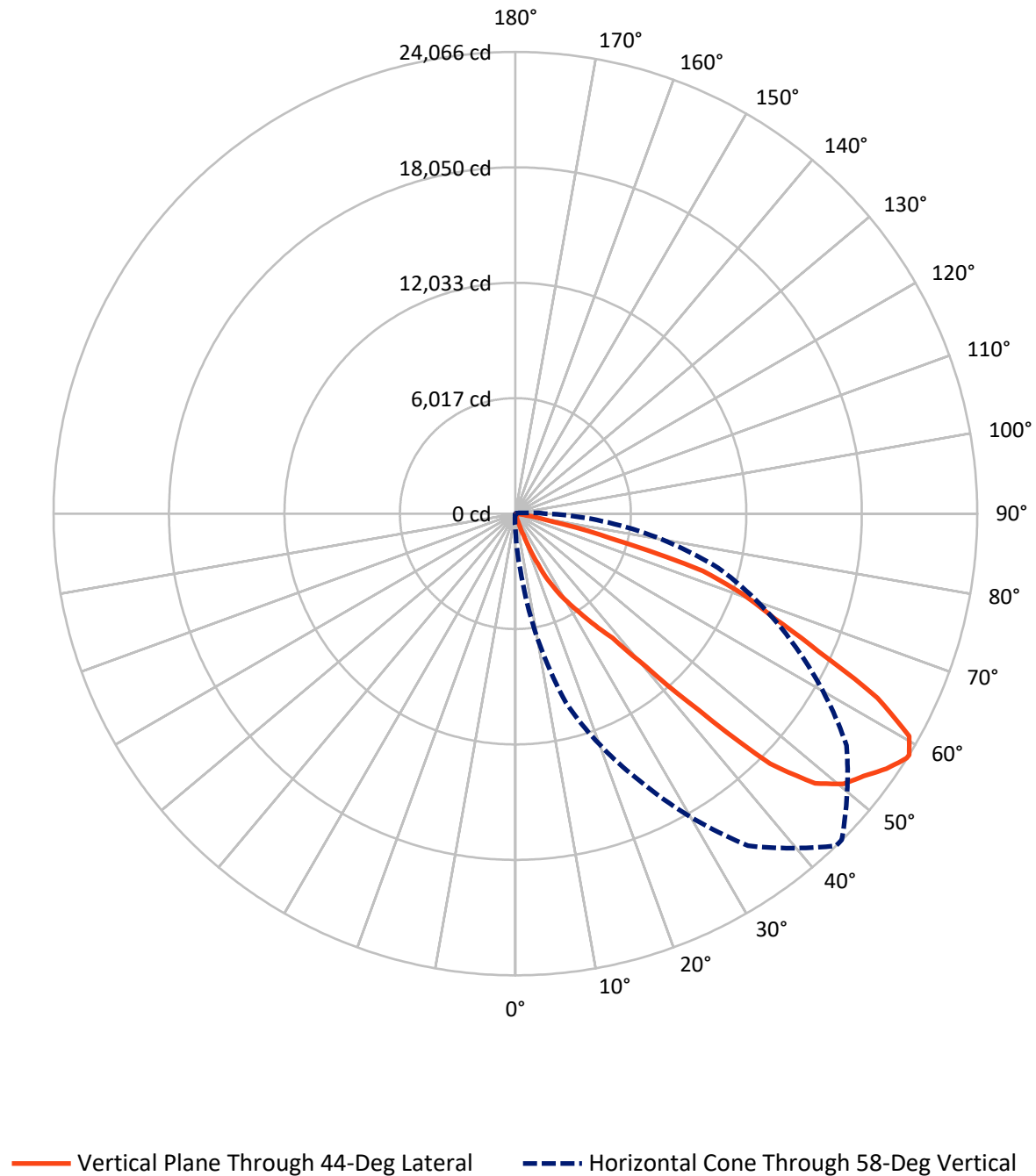


Based on 20 foot mounting height. Maximum calculated value = 16.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	64.1	0.0	64.1
	% Fixture	0.7	0.0	0.7
Street Side	Lumens	9317.0	0.0	9317.0
	% Fixture	99.3	0.0	99.3
Total	Lumens	9381.1	0.0	9381.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.0
10°-20°	20.6	0.2
20°-30°	222.2	2.4
30°-40°	657.2	7.0
40°-50°	1958.9	20.9
50°-60°	3108.3	33.1
60°-70°	2592.7	27.6
70°-80°	799.6	8.5
80°-90°	17.8	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	9381.1	100.0
0°-180°	9381.1	100.0



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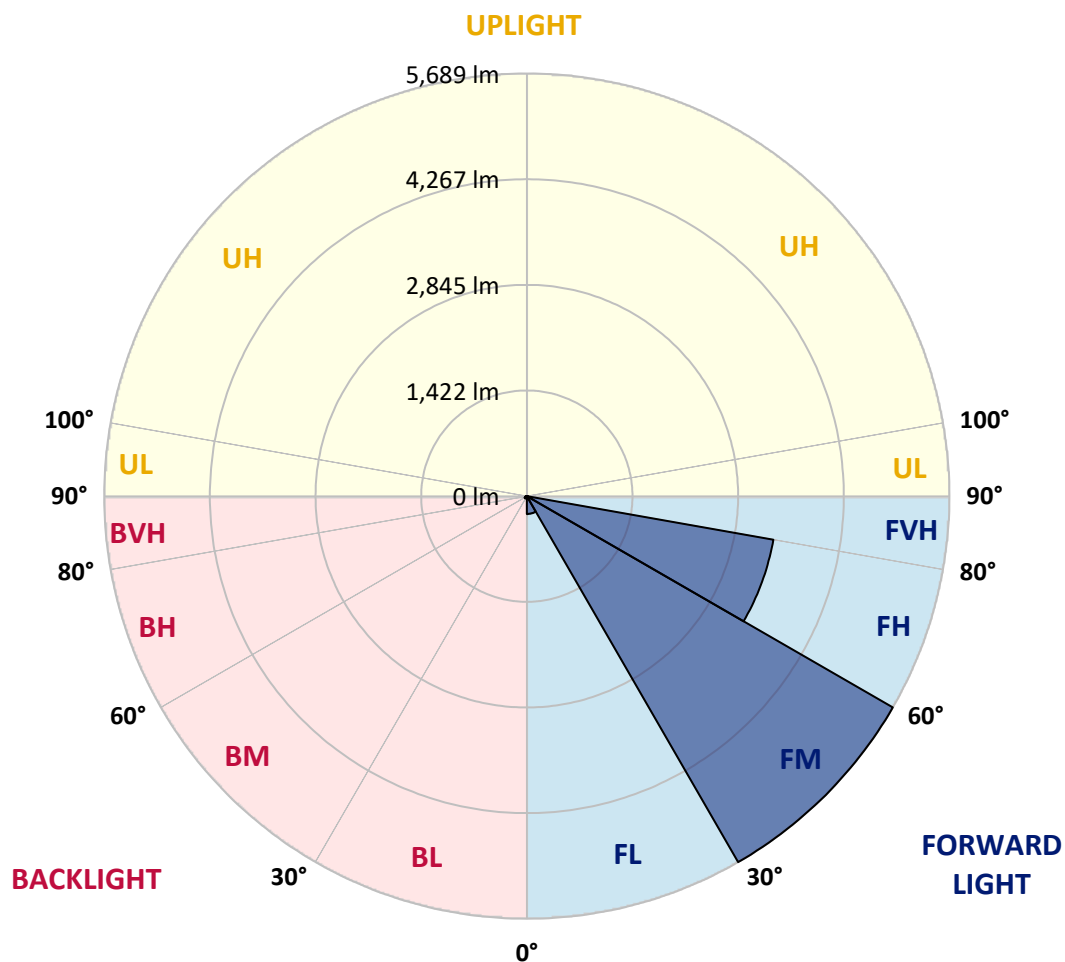
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	240.2	2.6			
FM	(30°-60°)	5689.4	60.6			
FH	(60°-80°)	3370.5	35.9			G2/5000
FVH	(80°-90°)	16.9	0.2			G1/100
BL	(0°-30°)	6.3	0.1	B0/110		
BM	(30°-60°)	35.1	0.4	B0/220		
BH	(60°-80°)	21.9	0.2	B0/110		G0/110
BVH	(80°-90°)	0.9	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
2.5°	53.1	53.1	51.0	48.2	45.4	42.5	41.8	40.4	39.7	39.0	38.3
5°	55.3	55.3	54.6	52.4	49.6	47.5	47.5	45.4	43.9	42.5	41.1
7.5°	56.7	57.4	58.8	58.1	56.7	54.6	54.6	53.1	51.0	47.5	45.4
10°	58.8	60.9	63.8	65.2	65.9	65.9	65.2	64.5	60.9	56.0	50.3
12.5°	60.9	65.2	72.3	79.4	83.6	89.3	88.6	87.2	78.0	67.3	57.4
15°	65.2	71.6	86.5	107.0	138.9	158.7	166.5	159.4	129.0	90.7	66.6
17.5°	70.2	80.8	125.4	223.9	367.1	435.1	476.2	442.9	293.4	172.2	83.6
20°	75.1	98.5	233.1	580.4	952.4	1175.0	1236.6	1140.2	732.0	328.1	124.0
22.5°	83.6	138.2	472.7	1199.8	2052.3	2386.1	2449.1	2140.9	1382.6	647.7	186.4
25°	101.3	200.6	815.0	1955.2	3062.8	3626.2	3600.0	3196.1	2242.9	1034.6	283.5
27.5°	126.9	292.0	1232.4	2778.0	4030.9	4527.6	4587.2	4087.6	2989.8	1521.5	402.5
30°	163.7	404.6	1680.2	3437.0	4806.8	5344.0	5353.9	4837.3	3658.1	1948.8	548.5
32.5°	199.1	510.9	2072.1	4074.1	5571.5	6160.4	6204.3	5568.7	4157.0	2393.9	675.4
35°	226.1	580.4	2469.0	4633.9	6342.5	7153.9	7151.1	6396.4	4748.0	2791.4	851.1
37.5°	228.2	649.8	2828.3	5206.5	7319.1	8227.6	8317.6	7485.6	5462.4	3283.2	1066.5
40°	223.2	727.8	3283.2	6099.4	9078.7	10472.6	10552.0	9503.1	6895.3	4125.1	1403.1
42.5°	228.9	863.1	4021.7	7748.5	12000.5	14002.4	14155.5	13052.8	9529.4	5842.9	2003.4
45°	258.7	1117.6	5568.7	10507.3	16165.3	18605.9	18554.9	16966.8	12594.3	8457.9	3191.1
47.5°	357.2	1740.5	7861.9	13192.4	18827.0	21000.5	21044.4	19103.4	14383.0	10468.3	4790.5
50°	549.2	2663.1	9788.7	14611.9	19971.5	22152.0	22110.9	19868.0	15062.6	11458.3	5770.6
52.5°	714.3	3330.7	10755.3	15110.1	20118.2	22721.1	22718.3	20069.3	15168.2	11543.4	5893.2
55°	755.4	3381.0	10763.1	15137.0	20447.0	23465.9	23559.4	20564.6	15305.0	11172.0	5431.9
57.5°	739.1	2993.4	10313.9	15292.9	21032.4	24042.0	24047.0	21044.4	15652.2	10944.6	4668.0
58°	725.0	2932.4	10223.1	15381.5	21133.0	24066.1	24054.1	21066.4	15935.0	10936.1	4548.2
60°	645.6	2546.2	9869.5	15607.6	20983.5	23571.5	23458.8	20586.6	15893.1	10848.9	3945.1
62.5°	507.4	1986.4	9521.6	15346.1	19380.5	21176.9	21223.7	18226.1	14488.6	10340.8	3234.3
65°	403.9	1480.4	8795.9	13461.0	15959.0	17390.5	17564.9	14820.9	12093.3	8756.2	2384.6
67.5°	321.7	1070.1	7378.6	10717.1	12628.3	14514.1	14640.9	12443.4	9369.2	6708.9	1694.4
70°	261.5	723.5	5093.1	7837.8	10415.9	12536.2	12544.0	10337.2	6993.1	4395.8	1063.0
72.5°	231.7	501.0	2956.5	5716.1	8445.8	10215.3	10009.1	8388.4	5374.5	2603.6	633.5
75°	200.6	332.4	1449.9	3494.4	5120.8	5155.5	5234.2	3891.3	2686.5	1238.0	379.8
77.5°	165.1	236.0	571.2	954.6	1535.7	1965.8	2038.8	1544.9	893.6	304.7	202.7
80°	113.4	112.0	153.8	292.7	439.4	550.6	513.8	397.6	233.9	116.9	72.3
82.5°	48.9	53.1	69.4	83.6	68.0	65.9	63.1	40.4	31.2	24.1	14.9
85°	15.6	14.2	14.9	14.9	12.0	9.2	9.2	4.3	0.0	0.0	0.0
87.5°	7.8	6.4	6.4	5.7	3.5	1.4	0.7	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
2.5°	37.6	37.6	36.1	34.7	34.0	32.6	31.9	31.2	30.5	29.8	29.1
5°	39.7	39.0	36.9	34.7	32.6	30.5	29.1	27.6	26.2	25.5	24.8
7.5°	43.2	41.8	37.6	34.0	31.2	28.3	26.9	24.8	23.4	21.3	20.6
10°	47.5	44.6	39.0	34.7	30.5	26.9	24.8	22.7	20.6	17.7	17.0
12.5°	53.1	48.2	41.1	34.0	29.1	24.8	22.7	19.8	17.7	15.6	14.2
15°	58.1	51.7	41.8	34.0	27.6	22.7	19.8	17.0	14.9	12.0	10.6
17.5°	65.2	54.6	41.1	31.9	25.5	19.8	17.0	14.9	11.3	7.1	5.7
20°	77.2	56.7	39.7	29.8	22.0	16.3	12.8	9.9	5.0	1.4	0.0
22.5°	96.4	62.4	38.3	26.9	19.1	12.8	8.5	3.5	0.0	0.0	0.0
25°	133.2	72.3	38.3	25.5	17.0	9.2	2.8	0.0	0.0	0.0	0.0
27.5°	177.2	85.7	38.3	22.0	13.5	5.0	0.0	0.0	0.0	0.0	0.0
30°	221.8	100.6	38.3	19.1	10.6	0.7	0.0	0.0	0.0	0.0	0.0
32.5°	264.3	113.4	39.0	16.3	7.1	0.0	0.0	0.0	0.0	0.0	0.0
35°	307.6	115.5	38.3	14.2	4.3	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	362.8	111.3	36.1	12.8	2.1	0.0	0.0	0.0	0.0	0.0	0.0
40°	446.5	113.4	34.0	12.0	0.7	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	600.9	122.6	31.2	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1038.9	164.4	28.3	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1718.5	295.5	27.6	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2193.3	372.0	29.1	13.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2189.8	414.6	30.5	14.2	2.8	0.0	0.0	0.0	0.0	0.0	0.0
55°	1946.7	422.4	32.6	15.6	9.2	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	1627.1	385.5	37.6	19.1	17.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	1570.4	368.5	39.0	19.8	18.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	1286.9	300.5	49.6	24.8	24.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	888.7	262.2	56.7	31.9	25.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	628.6	236.7	61.7	34.0	20.6	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	469.8	218.3	68.0	34.7	10.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	360.0	204.8	83.6	36.9	2.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	293.4	189.2	101.3	38.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	243.1	170.8	97.8	41.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	161.6	132.5	89.3	41.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	56.7	52.4	69.4	36.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.5	7.1	9.9	12.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
2.5°	29.1	29.1	28.3	29.1	29.1	30.5	34.0	39.0	44.6	46.8	48.9
5°	24.1	23.4	22.7	22.7	22.7	24.8	27.6	33.3	39.7	42.5	43.9
7.5°	19.8	19.1	18.4	17.7	17.7	19.1	22.7	29.1	35.4	38.3	40.4
10°	16.3	14.9	14.2	13.5	13.5	14.9	18.4	24.8	31.9	34.7	37.6
12.5°	13.5	11.3	9.9	9.2	8.5	10.6	14.2	19.8	27.6	31.2	34.0
15°	9.2	7.1	5.0	4.3	3.5	5.7	9.2	15.6	23.4	27.6	30.5
17.5°	5.0	2.1	0.7	0.0	0.0	1.4	4.3	11.3	19.1	22.7	26.2
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.7	14.2	17.7	21.3
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	8.5	12.0	15.6
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	6.4	9.2
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.3
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
58°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.1	4.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.8	5.7	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	285°	295°	305°	315°	316°	325°	335°	345°	355°	360°
0°	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1	41.1
2.5°	50.3	49.6	48.2	46.8	46.8	46.8	48.9	51.0	53.1	53.1
5°	46.8	46.8	46.1	44.6	44.6	45.4	48.2	51.7	54.6	55.3
7.5°	43.2	44.6	43.2	42.5	43.2	43.9	46.8	51.0	55.3	56.7
10°	41.1	41.8	41.8	41.1	41.1	42.5	45.4	51.0	56.7	58.8
12.5°	38.3	39.7	39.0	39.0	39.0	40.4	43.9	50.3	58.1	60.9
15°	35.4	37.6	37.6	36.9	36.9	37.6	42.5	49.6	60.2	65.2
17.5°	32.6	34.7	35.4	34.0	34.0	35.4	40.4	49.6	61.7	70.2
20°	26.9	30.5	32.6	30.5	30.5	31.9	36.9	46.8	62.4	75.1
22.5°	21.3	24.8	27.6	26.9	26.9	27.6	34.0	44.6	63.1	83.6
25°	15.6	19.1	21.3	22.7	22.7	24.8	31.2	43.2	65.9	101.3
27.5°	9.2	13.5	16.3	17.7	18.4	21.3	29.1	41.8	70.9	126.9
30°	4.3	7.8	11.3	14.2	14.2	19.1	26.9	40.4	77.2	163.7
32.5°	0.0	3.5	5.7	9.9	10.6	15.6	24.8	39.0	86.5	199.1
35°	0.0	0.0	2.8	7.8	7.8	12.8	22.7	37.6	100.6	226.1
37.5°	0.0	0.0	0.0	5.7	6.4	11.3	22.0	36.9	103.5	228.2
40°	0.0	0.0	0.0	4.3	5.0	10.6	22.0	37.6	93.5	223.2
42.5°	0.0	0.0	0.0	2.8	3.5	10.6	22.0	39.0	84.3	228.9
45°	0.0	0.0	0.0	2.1	2.8	11.3	21.3	38.3	79.4	258.7
47.5°	0.0	0.0	0.0	2.8	4.3	11.3	20.6	37.6	80.1	357.2
50°	0.0	0.0	0.0	3.5	5.0	11.3	21.3	36.1	87.9	549.2
52.5°	0.0	0.0	0.0	2.8	4.3	12.8	23.4	35.4	95.7	714.3
55°	0.0	0.0	0.0	0.7	2.1	16.3	25.5	35.4	107.7	755.4
57.5°	0.0	0.0	0.0	0.0	0.0	18.4	29.1	37.6	127.6	739.1
58°	0.0	0.0	0.0	0.0	0.0	18.4	29.8	37.6	129.0	725.0
60°	0.0	0.0	0.0	0.0	0.0	18.4	32.6	41.8	138.9	645.6
62.5°	0.0	0.0	0.0	0.0	0.0	15.6	39.0	52.4	144.6	507.4
65°	0.0	0.0	0.0	0.0	0.0	12.8	46.1	57.4	148.8	403.9
67.5°	0.0	0.0	0.0	0.0	0.0	12.0	47.5	58.1	150.9	321.7
70°	0.0	0.0	0.0	0.0	0.0	12.8	46.8	62.4	158.0	261.5
72.5°	0.0	0.0	0.0	0.0	0.0	14.2	42.5	68.7	158.0	231.7
75°	0.0	0.0	0.0	0.0	0.0	14.9	39.7	77.2	143.9	200.6
77.5°	0.0	0.0	0.0	0.0	0.0	14.2	39.0	90.0	128.3	165.1
80°	1.4	2.1	2.1	1.4	1.4	12.0	38.3	91.4	109.1	113.4
82.5°	4.3	5.7	5.0	3.5	3.5	10.6	34.0	76.5	56.7	48.9
85°	7.8	9.2	9.2	7.8	7.8	9.9	21.3	27.6	19.1	15.6
87.5°	10.6	12.0	12.0	10.6	10.6	9.9	9.2	8.5	7.8	7.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

LM-79-2019: Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Report Prepared for

Cooper Lighting Solutions

McGraw-Edison

Report Number: SP1-2407-184-2

Test Date: 10/09/2024

Luminaire Tested: GSS-SB1A-722-U-5WQ

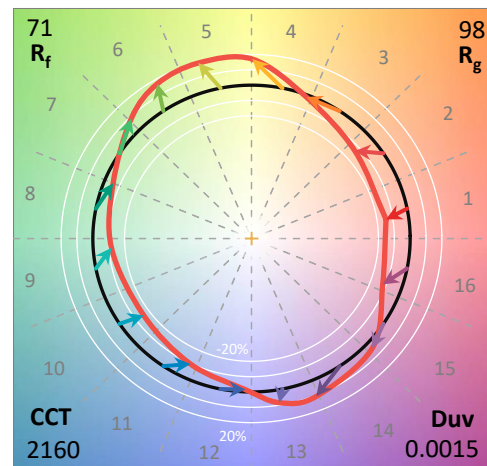
Data in this report applies to families of products including GSS-SB1A-722-U-5WQ

Test Information

Test Method: LM-79-2019
 Report Number: SP1-2407-184-2
 Test Lab: COOPER LIGHTING SOLUTIONS
 Photometer: SP1 - 76IN SPHERE
 Measurement Geometry: 4π
 Issue Date: 10/15/2024
 Manufacturer: COOPER LIGHTING SOLUTIONS
 Product Line: McGraw-Edison
 Catalog Number: **GSS-SB1A-722-U-5WQ**
 Description: GALLEON II SITE SLIM 1SQ 350MA 5WQ HIGH DENSITY LIGHTSQUARE WITH 70 CRI
 2200K CCT 26 LEDS

Spectral Parameters

CCT (K):	2160	CRI (Ra):	71.9		
CIE u':	0.2927	R1:	68.7	R9:	-17.8
CIE v':	0.5388	R2:	82.6	R10:	60.5
Duv:	0.0015	R3:	95.5	R11:	60.2
CIE x:	0.5130	R4:	66.4	R12:	48.2
CIE y:	0.4197	R5:	65.4	R13:	70.7
CIE z:	0.0674	R6:	75.9	R14:	96.8
Peak Wavelength (nm):	609	R7:	77.2	R15:	61.8
Dominant Wavelength (nm):	587	R8:	43.5		
Purity:	79.96089				
Rf:	70.6				
Rg:	97.6				



Test Conditions

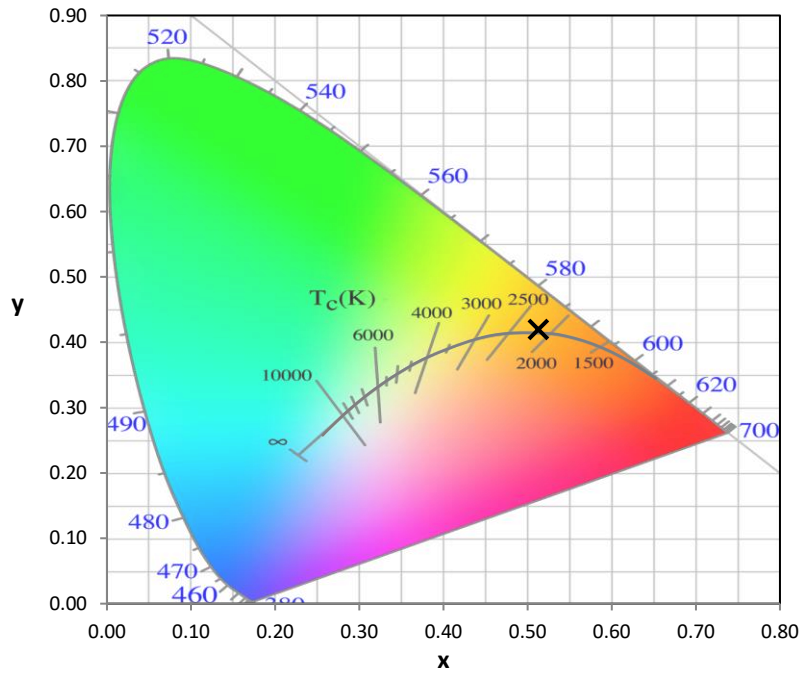
Stabilization Time: 21M
 Operation Time: 1H 21M
 Sphere Temperature (°C): 25.2

REPORT NUMBER: SP1-2407-184-2

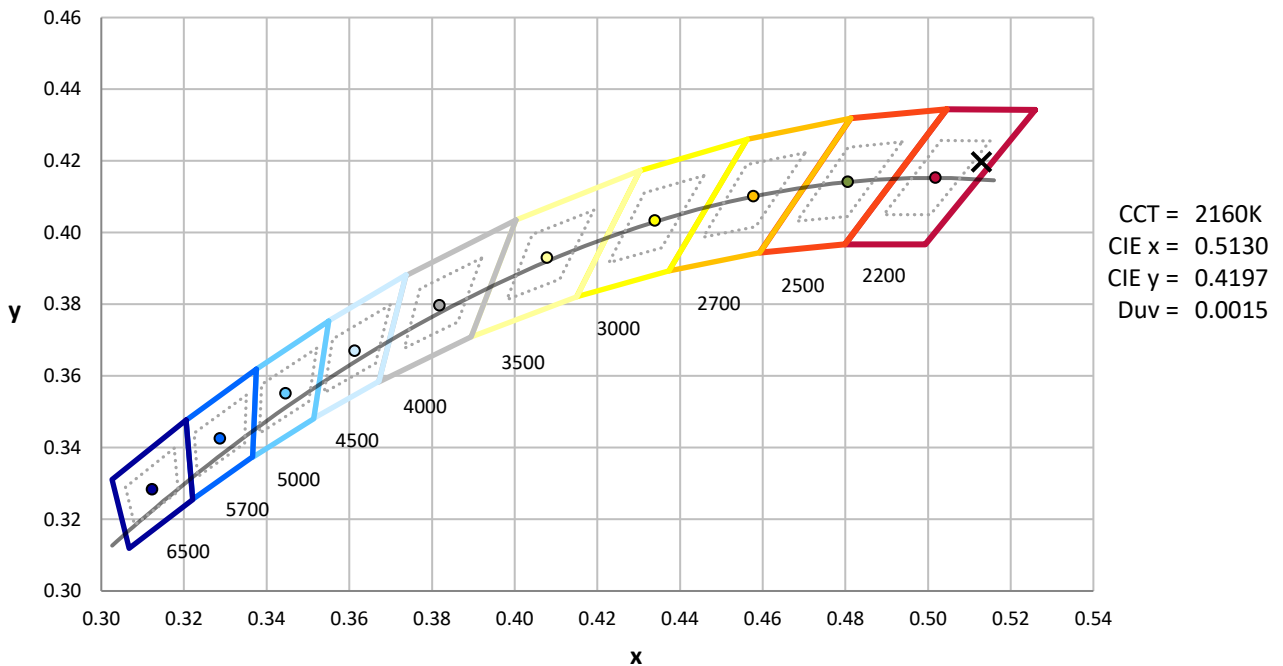
Measurement and Test Equipment			
Instrument	Identification Number	Calibration Date	Calibration Due Date
Photometer	IN0058	6/18/2024	12/18/2024
Power Meter	INXT2011004	2/8/2024	2/8/2025
AC Power Source	IN0063	10/24/2023	10/24/2024
DC Power Source	IN0208	10/24/2023	10/24/2024
Sphere Thermometer	IN0085	10/24/2023	10/24/2024
Room Thermometer	IN0046	10/24/2023	10/24/2024

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CIE 1931 Chromaticity Diagram



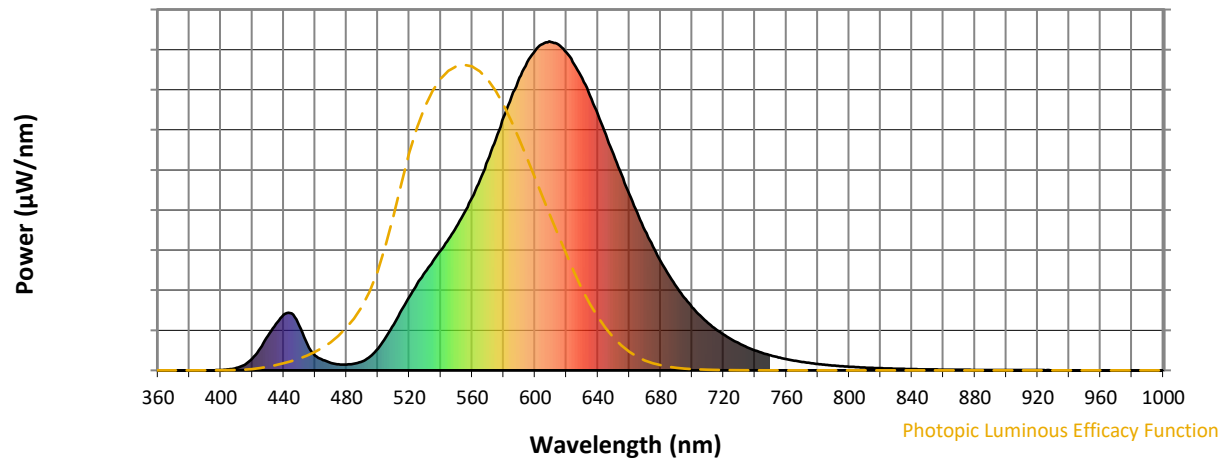
CIE 1931 Chromaticity Diagram with 2017 ANSI 7-Step and 4-Step Quadrangles



Point lies inside the ANSI 2200K 7-step quadrangle

REPORT NUMBER: SP1-2407-184-2

Photopic Flux vs. Wavelength

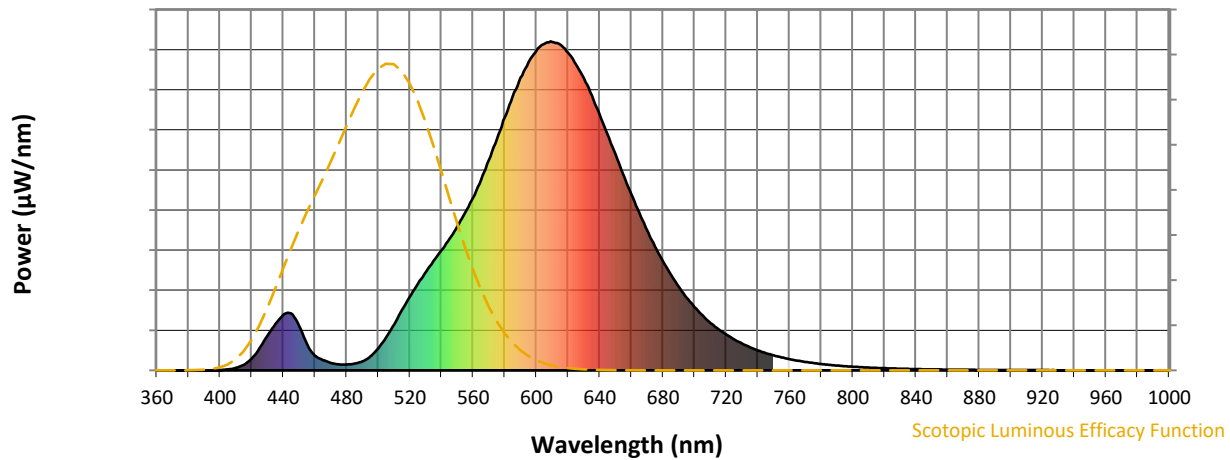


Photopic Lumens: NR

λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)	λ (nm)	Power W ^λ /nm	Lumens (φ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

Scotopic Flux vs. Wavelength



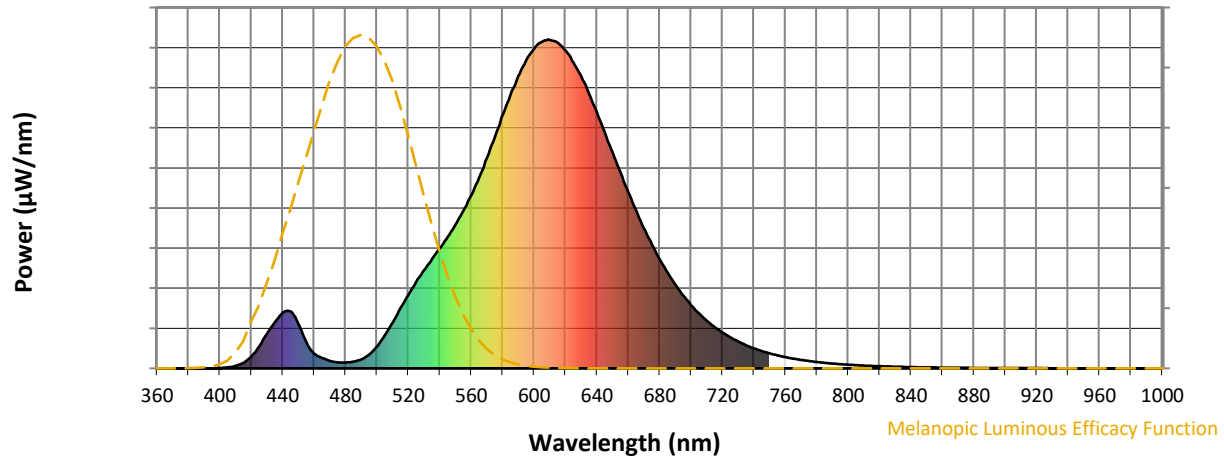
Scotopic Lumens: NR

S/P: 0.8

λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^\wedge/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

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Melanopic Flux vs. Wavelength


Melanopic Lumens: NR
M/P: 1.21

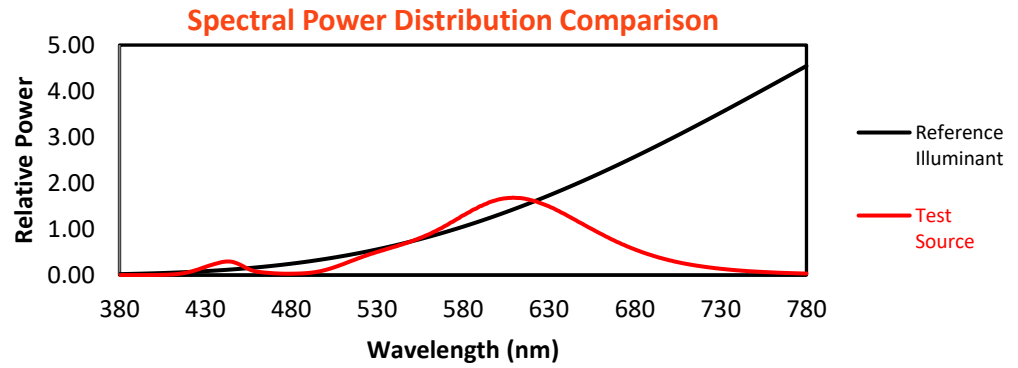
λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)	λ (nm)	Power $\text{W}^{\wedge}/\text{nm}$	Lumens (ϕ/nm)
360	0	NR	490	27	NR	620	966	NR	750	46	NR	880	1	NR
365	0	NR	495	42	NR	625	930	NR	755	39	NR	885	1	NR
370	0	NR	500	67	NR	630	888	NR	760	34	NR	890	1	NR
375	0	NR	505	101	NR	635	835	NR	765	30	NR	895	1	NR
380	0	NR	510	139	NR	640	778	NR	770	26	NR	900	1	NR
385	0	NR	515	183	NR	645	717	NR	775	22	NR	905	1	NR
390	0	NR	520	224	NR	650	656	NR	780	19	NR	910	1	NR
395	0	NR	525	262	NR	655	595	NR	785	17	NR	915	1	NR
400	1	NR	530	299	NR	660	536	NR	790	15	NR	920	1	NR
405	3	NR	535	332	NR	665	480	NR	795	13	NR	925	1	NR
410	7	NR	540	365	NR	670	425	NR	800	11	NR	930	1	NR
415	17	NR	545	400	NR	675	376	NR	805	10	NR	935	0	NR
420	36	NR	550	437	NR	680	332	NR	810	8	NR	940	0	NR
425	67	NR	555	479	NR	685	291	NR	815	8	NR	945	0	NR
430	105	NR	560	525	NR	690	255	NR	820	7	NR	950	0	NR
435	141	NR	565	579	NR	695	221	NR	825	6	NR	955	0	NR
440	169	NR	570	639	NR	700	192	NR	830	5	NR	960	0	NR
445	173	NR	575	703	NR	705	167	NR	835	4	NR	965	0	NR
450	136	NR	580	769	NR	710	144	NR	840	4	NR	970	0	NR
455	80	NR	585	832	NR	715	125	NR	845	3	NR	975	0	NR
460	45	NR	590	890	NR	720	109	NR	850	3	NR	980	0	NR
465	32	NR	595	937	NR	725	94	NR	855	3	NR	985	0	NR
470	23	NR	600	972	NR	730	81	NR	860	2	NR	990	0	NR
475	18	NR	605	992	NR	735	70	NR	865	2	NR	995	0	NR
480	18	NR	610	998	NR	740	61	NR	870	2	NR	1000	0	NR
485	20	NR	615	990	NR	745	53	NR	875	2	NR			

REPORT NUMBER: SP1-2407-184-2

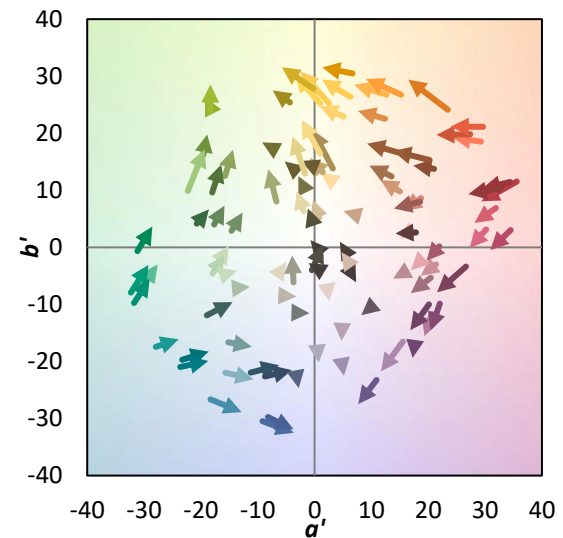
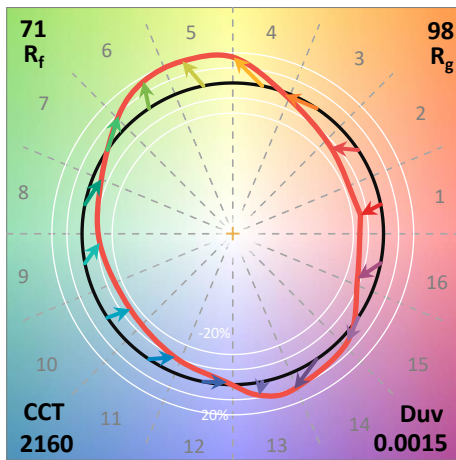
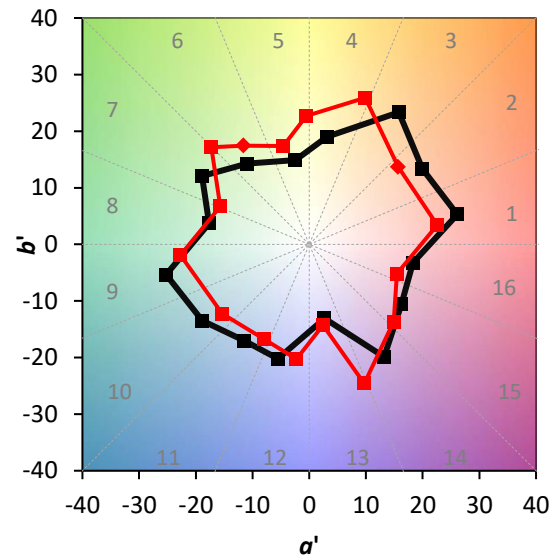
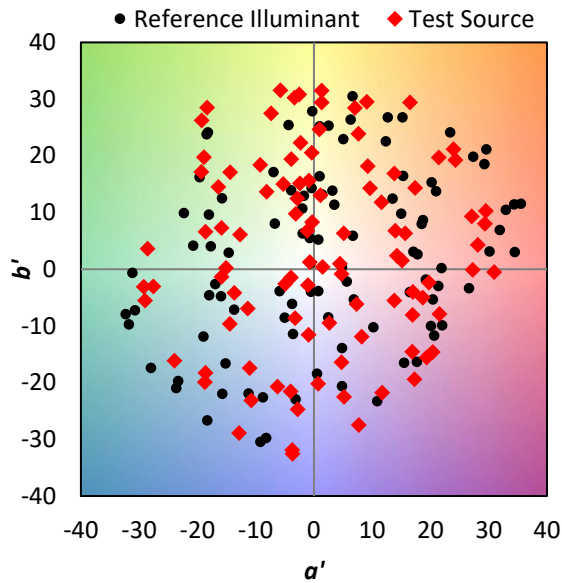
TM-30-18

Summary

$R_f = 70.6$
 $R_g = 97.6$
 $CIE R_a = 71.9$
 $R_g = -17.8$

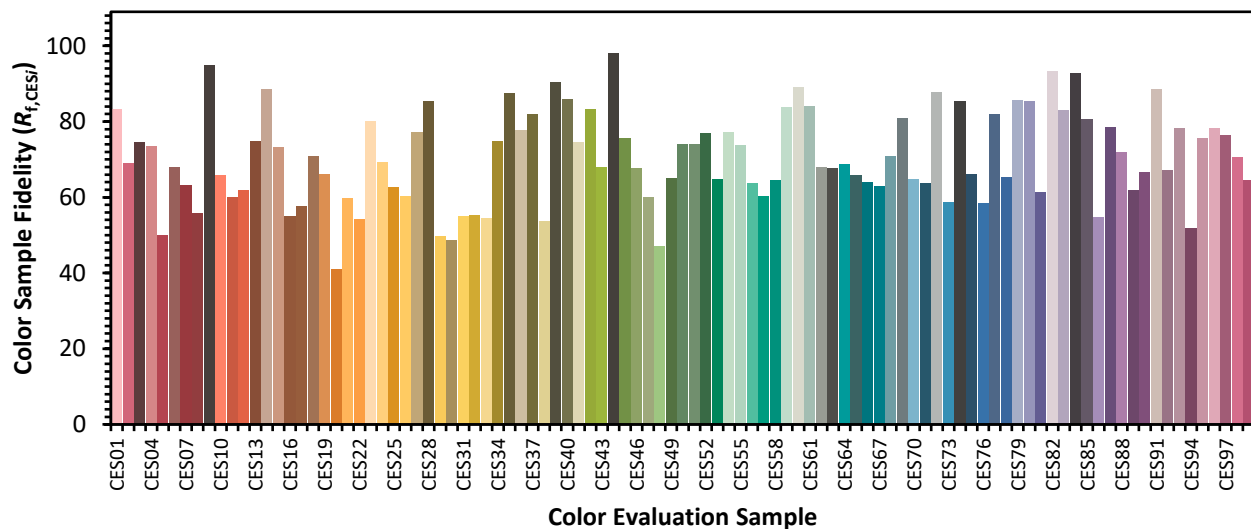


Color Vector Graphics

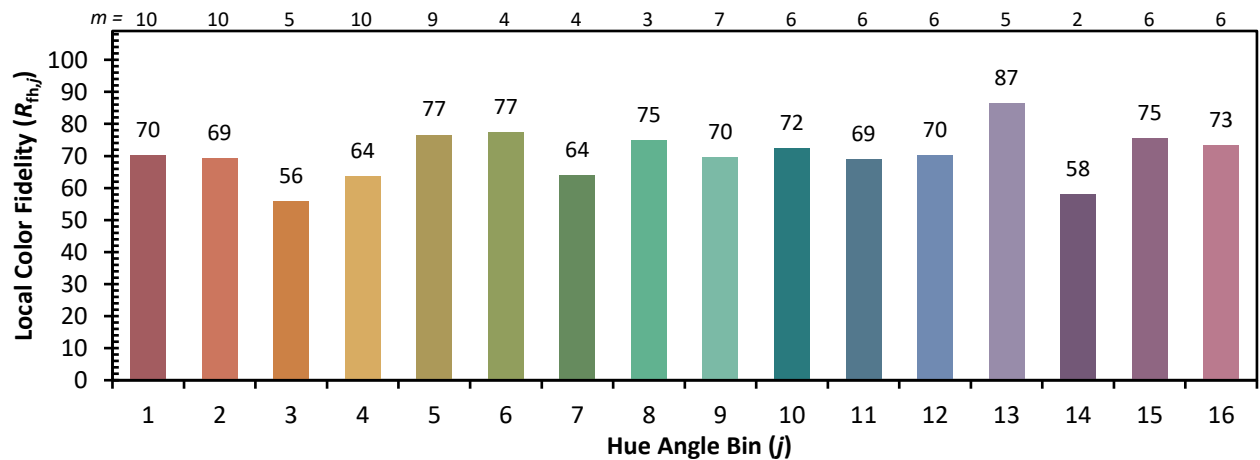
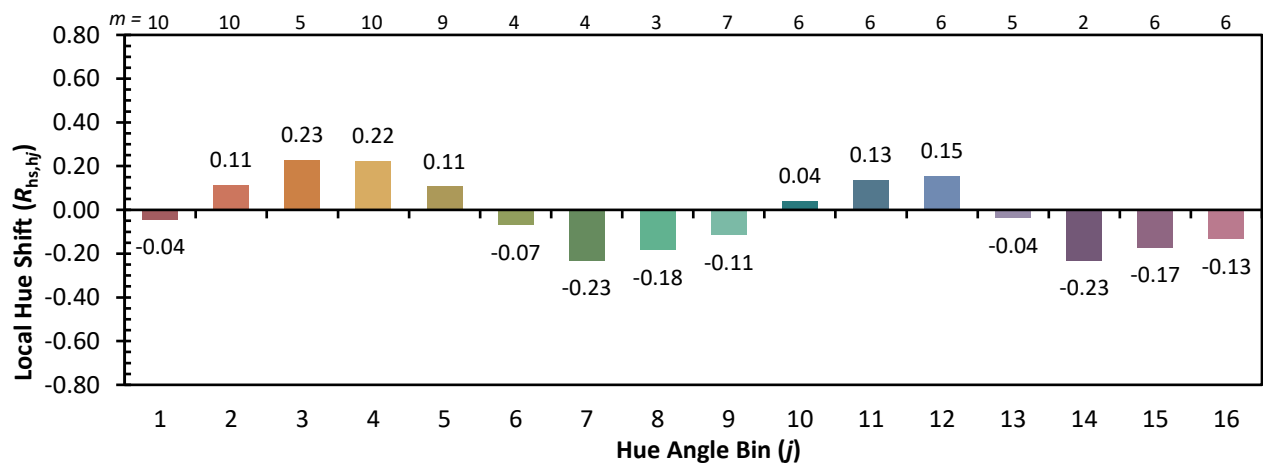
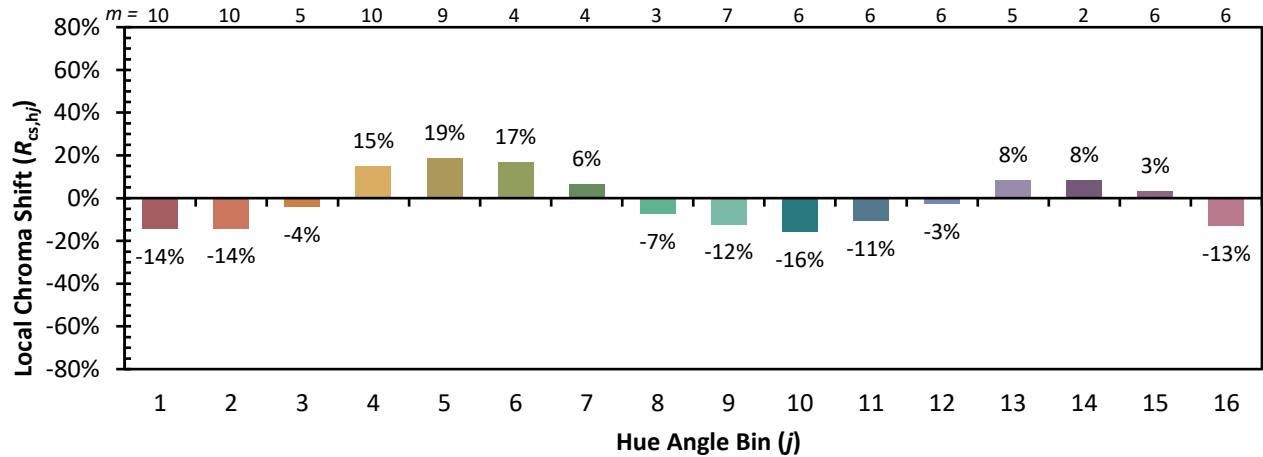


Individual Sample Fidelity Index ($R_{f,i}$)

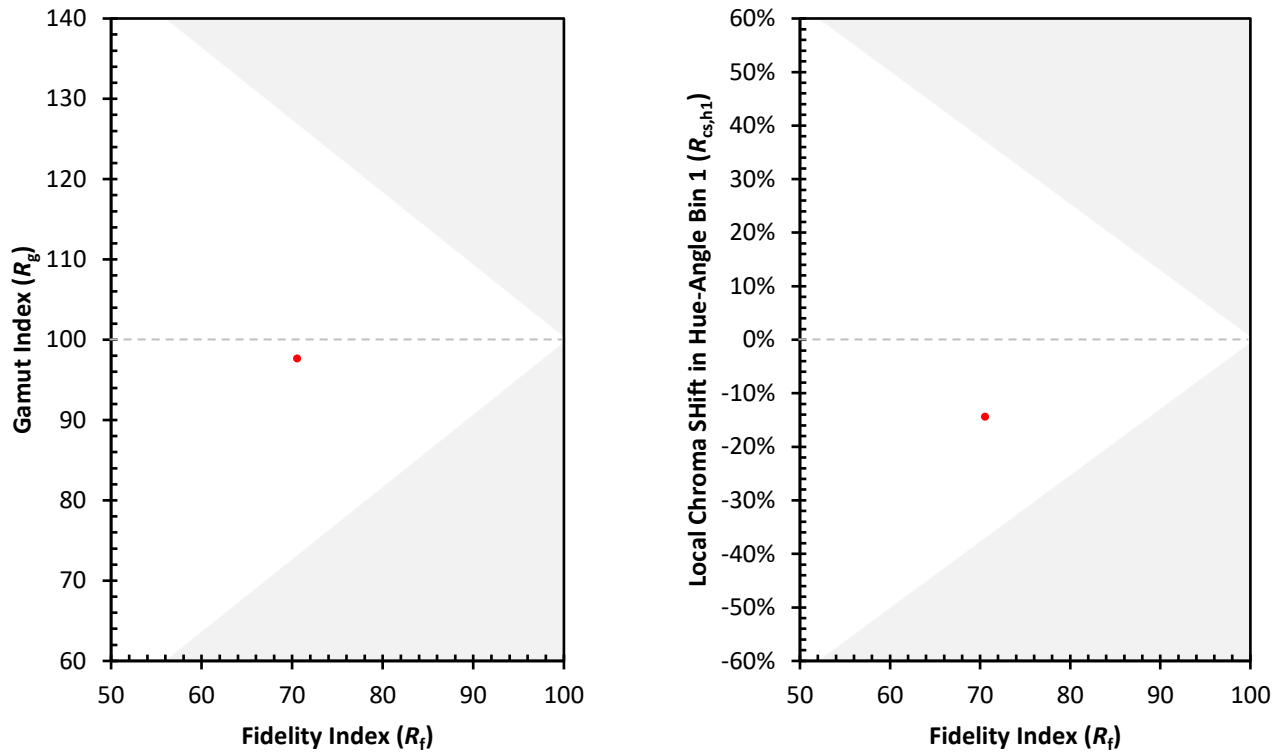
CES01 = 87	CES26 = 60	CES51 = 74	CES76 = 58
CES02 = 65	CES27 = 77	CES52 = 77	CES77 = 82
CES03 = 32	CES28 = 85	CES53 = 65	CES78 = 65
CES04 = 72	CES29 = 50	CES54 = 77	CES79 = 86
CES05 = 52	CES30 = 49	CES55 = 74	CES80 = 85
CES06 = 53	CES31 = 55	CES56 = 64	CES81 = 61
CES07 = 44	CES32 = 55	CES57 = 60	CES82 = 93
CES08 = 43	CES33 = 55	CES58 = 64	CES83 = 83
CES09 = 29	CES34 = 75	CES59 = 84	CES84 = 93
CES10 = 79	CES35 = 88	CES60 = 89	CES85 = 81
CES11 = 62	CES36 = 78	CES61 = 84	CES86 = 55
CES12 = 68	CES37 = 82	CES62 = 68	CES87 = 79
CES13 = 45	CES38 = 54	CES63 = 68	CES88 = 72
CES14 = 75	CES39 = 90	CES64 = 69	CES89 = 62
CES15 = 72	CES40 = 86	CES65 = 66	CES90 = 67
CES16 = 49	CES41 = 75	CES66 = 64	CES91 = 89
CES17 = 51	CES42 = 83	CES67 = 63	CES92 = 67
CES18 = 57	CES43 = 68	CES68 = 71	CES93 = 78
CES19 = 74	CES44 = 98	CES69 = 81	CES94 = 52
CES20 = 68	CES45 = 76	CES70 = 65	CES95 = 76
CES21 = 89	CES46 = 68	CES71 = 64	CES96 = 78
CES22 = 81	CES47 = 60	CES72 = 88	CES97 = 76
CES23 = 92	CES48 = 47	CES73 = 59	CES98 = 71
CES24 = 92	CES49 = 65	CES74 = 85	CES99 = 65
CES25 = 74	CES50 = 74	CES75 = 66	



Color Rendition by Hue-Angle Bin



Measure Comparisons



(END OF REPORT)